QC ABSTRACT

NAME OF WORK: "Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

Asst. Executive Engineer
Yelahanka Sub. Divison
BBMP
Yelahanka, Bangalore

8	RCC(M20)	Compressive Strength(7days and 28days)	4 set /31-50 cum	50.68	8	8
9	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	8 set /200-250 cum	211.79	16	16
10	GSB	SIEVE ANALYSIS	One Test		1	1
11	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
12	DBM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
13	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
14	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
15	TACK COAT	Rate of spread	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Format No: CP/TF/01

Lab ID : CP-2023-04-11-10
Date: 04-02-23

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Address : Yelahanka Sub Division, BBMP, Bangalore

Project Name : "Improvemets to Roads Drains at Srinivasapura Village in Ward No 01 of Yelahanka Sub Division"

Agency : Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045

Customer's Reference : BBMP/EE/YNK D/EPMT-13/W.O/ /2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-02-23

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 269 2015 Ordinary Portland cement Specification ,
IS 4031 (Part 4,5):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6

Date of test : 02-02-23

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.65	–
2	Finess by Air permeablity method (m^2/kg,Min)	296.7	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	295 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2023-04-11-10 Date: 03-02-23
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"
Agency	:	Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045
Customer Reference	:	BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-02-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	155	155	3.1	96.9	90-100
3	10 mm	3344	3499	70.0	30.0	25-55
4	4.75 mm	1377	4876	97.5	2.5	0-10
5	Pan	124	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-04-11-10

Date: 03-02-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	23.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Date: 03-02-23

Lab ID	:	CP-2023-04-11-10
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"
Agency	:	Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-23
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	01-02-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	38	38	3.8	96.2	90-100	90-100	90-100	95-100
3	2.36 mm	154	192	19.2	80.8	60-95	75-100	85-100	95-100
4	1.18 mm	202	394	39.4	60.6	30-70	55-90	75-100	90-100
5	600 micron	193	587	58.7	41.3	15-34	35-59	60-79	80-100
6	300 micron	183	770	77.0	23.0	5-20	8-30	12-40	15-50
7	150 micron	141	911	91.1	8.9	0-10	0-10	0-10	0-15
8	Pan	89	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2023-04-11-10

Date: 03-02-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.6	–
2	Specific Gravity	2.57	–
3	Material finer than 75 micron(%)	8.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Format No: CP/TF/01

Lab ID	:	CP-2023-04-11-10
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"
Agency	:	Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-23
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	01-02-23

Date: 02-02-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Format No: CP/TF/01

Date: 20-02-23

Lab ID	:	CP-2023-04-11-10
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"
Agency	:	Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-02-23
Sample Type /Size	:	Precast Cover Slab (100mm Thick)
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	14/02/2023
Grade of Slab	:	M25

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.53	100.48	1.116	4720	127.9	27.1	25.2	31.5
2	Cover Slab-2	77.62	100.52	1.122	4731	129.3	27.3	25.4	31.8
3	Cover Slab-3	77.43	100.51	1.118	4708	125.5	26.7	24.8	31.0

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Format No: CP/TF/01

Date: 20-02-23

Lab ID	:	CP-2023-04-11-10
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"
Agency	:	Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-02-23
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	14/02/2023
Grade of Kerb	:	M20

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	77.03	165.51	2.864	4659	102.1	21.9	21.9	27.4
2	B	77.08	165.49	2.793	4665	105.2	22.5	22.5	28.2
3	C	77.01	165.50	2.815	4657	104.1	22.4	22.4	27.9

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/02/2023

Lab ID	:	CP-2023-04-11-10
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"
Agency	:	Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-02-23
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	13/02/2023	20/02/2023	149.88 X 150.62 X 149.96	22576	8.519	417.0	18.5	18.6
2	Drain Bottom Slab Concrete	M20	13/02/2023	20/02/2023	151.70 X 150.41 X 150.89	22817	8.267	421.3	18.5	
3	Drain Bottom Slab Concrete	M20	13/02/2023	20/02/2023	151.67 X 151.78 X 151.61	23020	8.325	436.3	19.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 20/02/2023

Lab ID	:	CP-2023-04-11-10
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"
Agency	:	Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-02-23
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	13/02/2023	20/02/2023	150.21 X 150.68 X 150.98	22634	8.785	416.4	18.4	18.3
2	Drain Bottom Slab Concrete	M20	13/02/2023	20/02/2023	150.10 X 149.26 X 151.33	22404	8.602	409.0	18.3	
3	Drain Bottom Slab Concrete	M20	13/02/2023	20/02/2023	150.12 X 150.16 X 151.91	22542	8.779	408.5	18.1	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Agency/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2023-04-11-10

Date: 16/03/2023

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : "Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"

Agency : Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045

Customer's Reference : BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-02-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	16/02/2023	16/03/2023	149.43 X 151.10 X 151.25	22580	8.814	538.9	23.9	23.4
2	Drain Side Wall Concrete	M20	16/02/2023	16/03/2023	151.01 X 149.01 X 150.96	22501	8.782	511.6	22.7	
3	Drain Side Wall Concrete	M20	16/02/2023	16/03/2023	149.17 X 149.10 X 151.17	22241	8.562	524.7	23.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 23/02/2023

Lab ID	:	CP-2023-04-11-10
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"
Agency	:	Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-02-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	16/02/2023	23/02/2023	150.75 X 150.78 X 149.92	22730	8.726	411.2	18.1	18.2
2	Drain Side Wall Concrete	M20	16/02/2023	23/02/2023	149.29 X 151.80 X 150.14	22663	8.112	414.9	18.3	
3	Drain Side Wall Concrete	M20	16/02/2023	23/02/2023	149.12 X 151.95 X 150.03	22659	8.140	411.6	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 31/03/2023

Lab ID	:	CP-2023-04-11-10
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"
Agency	:	Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	31/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/03/2023	31/03/2023	151.73 X 149.91 X 150.68	22746	8.995	771.9	33.9	33.3
2	Cement Concrete Pavement	M30	03/03/2023	31/03/2023	151.28 X 150.81 X 151.67	22813	8.723	736.4	32.3	
3	Cement Concrete Pavement	M30	03/03/2023	31/03/2023	151.55 X 149.33 X 151.15	22632	8.554	760.6	33.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 10/03/2023

Lab ID	:	CP-2023-04-11-10
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"
Agency	:	Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/03/2023	10/03/2023	150.65 X 149.48 X 149.62	22518	8.964	568.4	25.2	25.2
2	Cement Concrete Pavement	M30	03/03/2023	10/03/2023	149.82 X 149.74 X 149.04	22434	8.430	589.5	26.3	
3	Cement Concrete Pavement	M30	03/03/2023	10/03/2023	151.39 X 149.21 X 149.60	22589	8.340	542.9	24.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 31/03/2023

Lab ID	:	CP-2023-04-11-10
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"
Agency	:	Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	31/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/03/2023	31/03/2023	149.83 X 149.18 X 150.49	22352	8.969	757.8	33.9	33.2
2	Cement Concrete Pavement	M30	03/03/2023	31/03/2023	149.52 X 150.84 X 151.14	22553	8.235	730.4	32.4	
3	Cement Concrete Pavement	M30	03/03/2023	31/03/2023	150.42 X 149.53 X 151.50	22493	8.538	752.2	33.4	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-04-11-10
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"
Agency	:	Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/03/2023

Date: 11/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	04/03/2023	11/03/2023	149.84 X 150.43 X 150.61	22540	8.813	578.0	25.6	25.6
2	Cement Concrete Pavement	M30	04/03/2023	11/03/2023	151.24 X 150.43 X 150.59	22751	8.446	604.9	26.6	
3	Cement Concrete Pavement	M30	04/03/2023	11/03/2023	150.86 X 151.06 X 151.31	22789	8.378	557.6	24.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 01/04/2023

Lab ID	:	CP-2023-04-11-10
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"
Agency	:	Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS. 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Pavement	M30	04/03/2023	01/04/2023	149.14 X 150.69 X 149.30	22475	8.406	755.5	33.6	33.2
2	Cement Concrete Pavement	M30	04/03/2023	01/04/2023	149.08 X 150.87 X 149.89	22492	8.621	727.6	32.4	
3	Cement Concrete Pavement	M30	04/03/2023	01/04/2023	150.26 X 149.10 X 150.61	22403	8.399	756.3	33.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2023-04-11-10

Date: 01/04/2023

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : "Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"

Agency : Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045

Customer's Reference : BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-03-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Pavement	M30	04/03/2023	01/04/2023	151.66 X 151.11 X 151.85	22918	8.859	761.5	33.2	32.8
2	Cement Concrete Pavement	M30	04/03/2023	01/04/2023	150.82 X 150.08 X 149.10	22636	8.972	727.6	32.1	
3	Cement Concrete Pavement	M30	04/03/2023	01/04/2023	151.82 X 151.45 X 150.16	22993	8.988	761.0	33.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 11/03/2023

Lab ID	:	CP-2023-04-11-10
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"
Agency	:	Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	04/03/2023	11/03/2023	150.99 X 149.67 X 150.42	22599	8.226	571.6	25.3	25.5
2	Cement Concrete Pavement	M30	04/03/2023	11/03/2023	149.60 X 150.21 X 151.77	22473	8.195	587.1	26.1	
3	Cement Concrete Pavement	M30	04/03/2023	11/03/2023	151.02 X 149.50 X 151.32	22579	8.599	564.1	25.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/04/2023

Lab ID	:	CP-2023-04-11-10
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore
Project Name	:	"Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"
Agency	:	Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045
Customer's Reference	:	BBMP/EE/YNK D/EPMT-13/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Pavement	M30	04/03/2023	01/04/2023	151.75 X 149.13 X 151.29	22630	8.937	765.2	33.8	33.3
2	Cement Concrete Pavement	M30	04/03/2023	01/04/2023	150.16 X 150.02 X 149.33	22528	8.106	726.4	32.2	
3	Cement Concrete Pavement	M30	04/03/2023	01/04/2023	149.83 X 149.33 X 150.53	22375	8.837	758.0	33.9	

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : CP-RW-2023-04-11-10 Date: 02-03-23

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : "Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"

Agency : Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045

Customer Reference : BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-02-23

Type of Mix : GSB (Granular Sub Base)

Date of Test : 28-02-23

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	1685	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	1106	10000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	CP-RW-2023-04-11-10
Customer	:	Date: 08-03-23
Address	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Yelahanka Sub Division, BBMP, Bangalore.
		"Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"
Agency	:	Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045
Customer Reference	:	BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-23
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	06-03-23

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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TEST REPORT ON BITUMEN

Format No: CP/TF/01

Lab ID	:	**CP-RW-2023-04-11-10**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"
Agency	:	Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-03-23
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)
Date of Test	:	11-03-23

Date: 13-03-23

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	Min 45mm
2	Softening Point, °C	51.2	Min. 47°C
3	Ductility, cm	98	Min. 40cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	CP-RW-2023-04-11-10 **Date: 20-03-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"
Agency	:	Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045
Customer Reference	:	BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	16-03-23
Type of Mix	:	DBM (Dense Bituminous Mecadam)
Date of Test	:	16-03-23

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	–

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	CP-RW-2023-04-11-10
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"
Agency	:	Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045
Customer Reference	:	BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-03-23
Type of Mix	:	DBM(Dense Bitumnous Macadam)
Date of Test	:	16-03-23

Date: 20-03-23

Type of Binder	:	60/70
% of Binder Used	:	4.5%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	9.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM (IS 2386:(Part 1) 1963 (RA2011)

Lab ID : CP-RW-2023-04-11-10

Date: 31-03-23

Customer : Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : "Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"

Agency : Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045

Customer Reference : BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23

Source of Sample : Sample supplied by Agency

Date of Receipt : 30-03-23

Type of Mix : DBM (Dense Bituminous Macadam)

Date of Test : 30-03-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	479.5	479
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	5.8
5	Increase in weight of Filter Paper	W5=W4-W3	2	1.8
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	4.50	4.56
7	Average percentage	%	4.53	

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Lab ID : **CP-RW-2023-04-11-10**

Weight of Sample(gm) : 479.5

AFTER EXTRACTION(Trail 1)

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative
37.5	0	0	
26.5	0	0	
19	47	47	
13.2	52	99	
4.75	190	289	
2.36	50	339	
0.3	50	389	
0.075	60	449	

Weight of Sample(gm) :

IS Sieve Size(mm)	Weight Retained (gm)	
37.5		
26.5		
19		
13.2		
4.75		
2.36		
0.3		
0.075		

	53-71
	42-58
	34-48
	26-38
	18-28
	12-20
7.9	4-10
0.0	0

* The results obtained

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : CP-RW-2023-04-11-10

Date: 01-04-23

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : "Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"

Agency : Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045

Customer Reference : BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23

Source of Sample : Sample supplied by Agency

Date of Receipt : 31-03-23

Type of Mix : BC (Bituminous Concrete)

Date of Test : 31-03-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	475	474.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	5.8
5	Increase in weight of Filter Paper	W5=W4-W3	2	1.8
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.40	5.46
7	Average percentage	%	5.43	

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part I) 1963 (RA 2011)

Lab ID	:	CP-RW-2023-04-11-10
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. Date: 01-04-23
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"
Agency	:	Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045
Customer Reference	:	BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	31-03-23
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	31-03-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	475	474.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	5.8
5	Increase in weight of Filter Paper	W5=W4-W3	2	1.8
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.40	5.46
7	Average percentage	%	5.43	

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	CP-RW-2023-04-11-10 Date: 01-04-23
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division"
Agency	:	Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045
Customer Reference	:	BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23
Sample Condition	:	Satisfactory
Date of Receipt	:	31-03-23
Type of Mix	:	Tack coat
Date of Test	:	31-03-23

SLNo	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

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